

CLAIMS

1. A method for inducing proliferation of a neural stem cell, comprising contacting the neural stem cell with at least one
5 of a dendritic cell, a blood cell or the culture supernatant of the cell, or granulocyte-macrophage colony stimulating factor (GM-CSF).

2. The method for inducing proliferation of a neural stem cell of claim 1, comprising contacting the neural stem cell with
10 at least one of a dendritic cell, a blood cell, and granulocyte-macrophage colony stimulating factor (GM-CSF) in a culture medium.

3. The method for inducing proliferation of a neural stem cell of claim 2, comprising isolating a mammalian nervous tissue
15 containing the neural stem cell, selectively culturing the neural stem cell in a culture medium containing a growth factor, and then co-culturing the neural stem cell with a dendritic cell and/or a blood cell.

4. The method for inducing proliferation of a neural stem
20 cell of claim 2, comprising isolating a nervous tissue containing the neural stem cell, selectively culturing the neural stem cell in a culture medium containing a growth factor, and then culturing the neural stem cell in the culture supernatant of at least one of a dendritic cell and a blood cell.

25 5. The method for inducing proliferation of a neural stem cell of any one of claims 2 to 4, wherein the culture medium containing the growth factor is a culture medium containing EGF and/or FGF.

6. The method for inducing proliferation of a neural stem
30 cell of any one of claims 1 to 5, wherein the dendritic cell is an immature dendritic cell subset having the CD11c surface marker on the cell surface or a mature dendritic cell subset derived from the immature dendritic cell subset.

7. The method for inducing proliferation of a neural stem
35 cell of any one of claims 1 to 6, wherein the blood cell is a spleen cell, a T cell, a monocyte, a neutrophil, an eosinophil,

or an basophil.

8. A set for inducing proliferation of a neural stem cell, comprising at least one of a dendritic cell, a blood cell or the culture supernatant of the cell, or granulocyte-macrophage colony stimulating factor (GM-CSF).

9. The set for inducing proliferation of a neural stem cell of claim 8, further comprising a culture medium containing a growth factor.

10. The set for inducing proliferation of a neural stem cell of claim 9, wherein the culture medium containing the growth factor is a culture medium containing at least EGF and/or FGF.

11. The set for inducing proliferation of a neural stem cell of any one of claims 8 to 10, wherein the dendritic cell is an immature dendritic cell subset having the CD11c surface marker on the cell surface or a mature dendritic cell subset derived from the immature dendritic cell subset.

12. The set for inducing proliferation of a neural stem cell of any one of claims 8 to 11, wherein the blood cell is a spleen cell, a T cell, a monocyte, a neutrophil, an eosinophil, or a basophil.

13. A therapeutic agent for a nerve injury or nerve function insufficiency, comprising containing as an active ingredient the neural stem cell obtained by the method for inducing proliferation of any one of claims 1 to 7.

14. A therapeutic agent for a nerve injury or nerve function insufficiency, comprising containing as an active ingredient the set for inducing proliferation of any one of claims 8 to 12.

15. A therapeutic agent for cerebral infarction, comprising containing granulocyte-macrophage colony-stimulating factor (GM-CSF) as an active ingredient.

16. A therapeutic method for a nerve injury or nerve function insufficiency, comprising administering the neural stem cell obtained by the method for inducing proliferation of any one of claims 1 to 7.

17. A therapeutic method for a nerve injury or nerve function insufficiency, comprising administering the set for inducing proliferation of any one of claims 8 to 12.

18. A therapeutic method for cerebral infarction, comprising
5 administering granulocyte-macrophage colony-stimulating
factor (GM-CSF).

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